

# **Clinical Classifications Software (CCS), 1999 Software and User's Guide**

## **Overview**

Clinical Classifications Software provides a way to classify diagnoses and procedures into a limited number of categories. CCS aggregates individual ICD-9-CM codes into broad diagnosis and procedure groups for statistical analysis and reporting. This document provides a description of the CCS categorization scheme. Electronic files containing the translation of ICD-9-CM diagnosis and procedure codes into CCS categories can be downloaded from this site. (CCS was formally called CCHPR, Clinical Classifications for Health Policy Research.)

CCS is continually updated. The current version is based on ICD-9-CM codes that are valid for January 1980 through September 1999. CCS consists of two related classification systems. The first system, called the *single level CCS*, groups diagnoses into mutually exclusive categories. The single-level diagnosis CCS aggregates illnesses and conditions into 259 mutually exclusive categories. Similarly, the single-level procedure CCS aggregates procedures into 231 mutually exclusive categories, most of which are homogeneous.

The second system expands the single-level CCS into a hierarchical system, called the *multi-level CCS*. The multi-level CCS groups single-level CCS categories into broader categories (e.g., "Infectious Diseases," "Mental Disorders," and "Injury"). It also splits single-level CCS categories to provide more detail about particular groupings of codes.

## **Purpose**

CCS categories can be employed in many types of projects analyzing data on diagnoses and procedures. For example, they can be used to:

- identify cases for disease-specific or procedure-specific studies;
- gain a better understanding of an institution's or health plan's distribution of patients across disease or procedure groupings;
- provide statistical information on characteristics, such as charges and length of stay, about relatively specific conditions;
- cross-classify procedures by diagnoses to provide insight into the variety of procedures performed for particular diagnoses.

Diagnoses and procedures for hospital inpatient stays are coded using the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM), Fifth Edition (Public

Health Service and Health Care Financing Administration, 1994). ICD-9-CM consists of about 12,000 diagnosis codes and 3,500 procedure codes. Although it is possible to present descriptive statistics for individual ICD-9-CM codes, it is often useful to aggregate codes into clinically meaningful categories that group similar conditions or procedures. For examples of the use of CCS categories, see Elixhauser and Steiner (in press, 1999); Cowen et al., 1998; Elixhauser, Steiner, Whittington, et al. (1998); Elixhauser and McCarthy (1996); Duffy, Elixhauser, and Sommers (1996); and Agency for Health Care Policy and Research (1996). These reports aggregate individual hospital stays into larger diagnosis and procedure groups for statistical analysis and reporting. CCS is distinguished from other grouping schemes because it does not confound diagnosis with treatment, but keeps diagnoses and procedures separate in two different classifications.

## **History of Development**

Clinical Classifications for Health Policy Research (CCHPR) Version 1 was the initial endeavor to construct clinically meaningful categories of diagnoses and procedures. The determining factor in creating these categories was the extent to which conditions and procedures could be grouped into relatively homogeneous clusters of interest to public policy researchers. CCHPR Version 1 consisted of 185 summary diagnosis categories and 172 summary procedure categories (Elixhauser, Andrews, and Fox, 1993).

CCHPR Version 2 was derived from the Version 1 summary diagnosis and procedure categories. Version 1 categories were modified on the basis of clinical homogeneity, frequency of occurrence in inpatient discharge data, and ICD-9-CM coding changes. The number of discharges in all categories was computed using 1991 California hospital inpatient data on all-listed diagnoses and all-listed procedures from the Healthcare Cost and Utilization Project State Inpatient Databases (SID).

The modified CCHPR schemes went through reviews during which the categories and ICD-9-CM code assignments were evaluated for accuracy and clinical significance. The reviews were conducted by trained medical records personnel and a physician with experience in medical classification. During this review process, additional categories were created, other categories were collapsed, and codes were reassigned when appropriate.

Version 2 contained more categories than Version 1. Some conglomerate categories (e.g., "Other gastrointestinal procedures") and high-frequency categories (e.g., "Pregnancy-related conditions") were divided into smaller, more clinically homogeneous groups.

With the 1999 update, an additional classification scheme is introduced, E codes (external causes of injury) receive special treatment, and the name is changed to Clinical Classification Software (CCS), reflecting the broader use of the classifications beyond health policy research. The single-

level CCS is identical to CCHPR Version 2, updated for FY1999 ICD-9-CM coding changes. However, while E codes were previously aggregated into a single category, now users are given the option of classifying E codes into categories based on a scheme developed by the Centers for Disease Control. The multi-level CCS is a hierarchical system that groups single-level CCS categories into broader categories and splits single-level CCS into finer categories to provide more detail. The multi-level CCS has been previously used for reporting, but the software has not been made publicly available until now.

## **Description**

### **Single-Level CCS**

The single-level diagnosis classification scheme aggregates illnesses and conditions into 259 mutually exclusive categories, most of which are clinically homogeneous. Some heterogeneous categories were necessary; these combine several less common individual conditions within a body system.

All codes in the diagnosis section of ICD-9-CM are classified. In previous versions of the system, E codes (External Causes of Injury and Poisoning) were not classified because they are used sporadically in inpatient data; hence they were lumped into a single category (CCS 260). The 1999 version of the CCS incorporates a classification system for E codes developed by staff at the Centers for Disease and Control and Prevention, providing the option to report E codes in more detail (Centers for Disease Control, 1997).

The single-level procedure classification scheme contains 231 mutually exclusive categories. Many of the categories represent single procedures; however, some procedures that occur infrequently are grouped according to the body system on which they are performed, whether they are used for diagnostic or therapeutic purposes, and whether they are considered operating room or non-operating room procedures according to diagnosis related groups definitions (DRGs: Diagnosis related groups definitions manual, 1994).

The category names for the single-level diagnosis and procedure CCS are presented in Table 1 and Table 2. The ICD-9-CM code assignments to each category are presented in Appendix A for diagnoses and Appendix B for procedures.

### **Multi-level CCS**

The multi-level CCS is a hierarchical system based on the single-level CCS. Single-level CCS categories are grouped into broad categories and are split further into more refined categories. The multi-level diagnosis CCS is split into four levels, while the multi-level procedure CCS is split into three levels. A multi-digit numbering system is used to identify the level of each hierarchical category.

For example, CCS category 99. *Hypertension with complications and secondary hypertension* is grouped with 98. *Essential hypertension* to form a broader category, called simply Hypertension. In addition, 99. *Hypertension with complications and secondary hypertension* is broken into several more homogeneous groups as shown below.

- 7 Diseases of the circulatory system
  - 7.1 Hypertension
    - 7.1.1 Essential hypertension [98.]
    - 7.1.2 Hypertension with complications and secondary hypertension [99.]
      - 7.1.2.1 Hypertensive heart and/or renal disease
      - 7.1.2.2 Other hypertensive complications
  - 7.2 Diseases of the heart
  - ....

In the multi-level CCS, original single-level CCS categories are labeled with the original CCS number in brackets following the CCS category name, e.g., A[98.]@ and A[99.]@ above.

The category names for the multi-level diagnosis and procedure CCS are presented in Table 3 and Table 4. The definitions of each category are presented in Appendix C for diagnoses and Appendix D for procedures. Note that multi-level CCS categories are comprised of single-level CCS categories or ICD-9-CM codes. Construction of multi-level CCS requires that ICD-9-CM codes first be assigned to single-level CCS.

## **Warnings About ICD-9-CM Coding Changes**

### **Time period covered by CCS**

In order to keep abreast of yearly changes in the ICD-9-CM codes, the CCS categories are updated annually after code assignments are reviewed and agreement is reached among the developer and medical records personnel.

The ICD-9-CM codes are revised every October. New codes are added, existing codes are deleted, and definitions of current codes are changed. CCS categories are revised in response to ICD-9-CM changes. The 1999 version of the CCS is valid for the time period January 1980 through September 1999.

Using these CCS categories with data outside the time period January 1980 through September 1999 will result in misclassification of ICD-9-CM codes.

### **ICD-9-CM codes requiring special treatment**

CCS accounts for all changes in ICD-9-CM coding definitions from January 1980 through September 1999 except for two codes whose meaning changed to such an extent that their CCS category assignment changed as well. These two codes must be explicitly assigned by the user when using older data. If you use more recent data (as described below) no special treatment is necessary. The codes are correctly assigned in the CCS program.

Assignment of these two codes requires information on the year and quarter of service. When using data that span the time periods described below, these ICD-9-CM codes must be assigned to CCS categories explicitly according to the year and quarter of the data.

Special treatment is required for the following diagnosis code:

From January 1980 to September 1993, ICD-9-CM diagnosis code '2510 ' should appear in CCS diagnosis category 50 (Diabetes mellitus with complications).

Beginning in October 1993, ICD-9-CM diagnosis code '2510 ' appears in CCS diagnosis category 51 (Other endocrine disorders). The current CCS program assigns this code to category 51.

Special treatment is required for the following procedure code:

From January 1980 to September 1989, ICD-9-CM procedure code '8159' should appear in CCS procedure category 153 (Hip replacement, total and partial).

Beginning in October 1989, ICD-9-CM procedure code '8159' appears in CCS procedure category 154 (Arthroplasty, other than hip or knee). The current CCS program assigns this code to category 154.

## **Description of Downloadable Files**

### **"Unzipping" files**

There are two downloadable files, both self-extracting zipped files, called CCS.EXE (for the single-level CCS) and CCS\_X.EXE (for the multi-level CCS) .

### **Single-level CCS**

CCS.EXE contains two ASCII (DOS text) files that translate ICD-9-CM codes into single-level CCS categories and two ASCII (DOS text) files that provide descriptive labels for the single-level CCS categories. To use these zipped files, you must do the following:

1. Create a subdirectory (or folder) called CCS on your hard drive (e.g., MD C:\CCS). You will need a total of approximately 1,465,000 bytes free to accommodate all the files once they are unzipped.
2. Copy CCS.EXE to this subdirectory.
3. Expand the files:

Using DOS: At the DOS prompt within this newly created directory, type CCS and hit the enter key (C:\CCS>CCS).

Using Windows: Under "RUN" type C:\CCS\CCS

The self-extracting zipped file will unzip (expand for normal use) the following files. Note that the original file (CCS.EXE) will remain intact.

### ***Single-level Diagnosis CCS***

#### **\$DXREF.TXT**

Translation file that maps ICD-9-CM diagnosis codes into single-level CCS diagnosis categories, with full information about each ICD-9-CM code and brief CCS labels.

#### **DXLABEL.TXT**

Label file that contains the full descriptive single-level CCS diagnosis category names to use when reporting the diagnosis categories.

### ***Single-level Procedure CCS***

#### **\$PRREF.TXT**

Translation file that maps ICD-9-CM procedure codes into single-level CCS procedure categories, with full information about each ICD-9-CM code and brief CCS labels.

#### **PRLABEL.TXT**

Label file contains the full descriptive single-level CCS procedure category names to use when reporting the procedure categories.

## **Multi-level CCS**

CCS\_X.EXE contains nine ASCII (DOS text) files that translate ICD-9-CM codes into multi-level CCS categories and two ASCII (DOS text) files that provide descriptive labels for the multi-level CCS categories. To use these zipped files, you must do the following:

1. Create a subdirectory (or folder) called CCS\_X on your hard drive (e.g., MD C:\CCS\_X). You will need a total of approximately 1,004,000 bytes free to accommodate all the files once they are unzipped.
2. Copy CCS\_X.EXE to this subdirectory.
3. Expand the files:

Using DOS: At the DOS prompt within this newly created directory, type CCS\_X and hit the enter key (C:\CCS\_X>CCS\_X).

Using Windows: Under "RUN" type C:\CCS\_X\CCS\_X

The self-extracting zipped file will unzip (expand for normal use) the following files. Note that the original file (CCS\_X.EXE) will remain intact.

### ***Multi-level Diagnosis CCS***

#### **DXLEVL1.TXT**

Translation file that maps level 2 multi-level CCS categories into level 1 multi-level CCS categories

#### **DXLEVL2.TXT**

Translation file that maps single-level CCS categories into level 2 multi-level CCS categories

#### **DXLEVL3.TXT**

Translation file that maps single-level CCS categories into level 3 multi-level CCS categories

#### **\$DXLVL3.TXT**

Translation file that maps ICD-9-CM codes into level 3 multi-level CCS categories

#### **\$DXLVL4.TXT**

Translation file that maps ICD-9-CM codes into level 4 multi-level CCS categories

#### DXMLABEL.TXT

Label file contains the full descriptive multi-level CCS diagnosis category names to use when reporting the diagnosis categories.

#### *Multi-level Procedure CCS*

#### PRLEVL1.TXT

Translation file that maps level 2 multi-level CCS categories into level 1 multi-level CCS categories

#### PRLEVL2.TXT

Translation file that maps single-level CCS categories into level 2 multi-level CCS categories

#### PRLEVL3.TXT

Translation file that maps single-level CCS categories into level 3 multi-level CCS categories

#### \$PRLVL3.TXT

Translation file that maps ICD-9-CM codes into level 3 multi-level CCS categories

#### PRMLABEL.TXT

Label file contains the full descriptive multi-level CCS procedure category names to use when reporting the procedure categories.

### **Using Translation Files**

For the single-level CCS, the translation files translate specific ICD-9-CM codes into CCS categories. The multi-level CCS is based upon the single-level CCS, so you must first assign single-level CCS categories in your data; then multi-level CCS categories can be created. (This process is used to avoid redundancy in ICD codes and massive translation files.)

How you use these files will depend on the software system being used. For example, if you are using SAS, you can adapt these translations to create a SAS PROC FORMAT. If you are using SPSS, you can adapt these translations into VALUE LABELS or into a series of recodes.

### **Representation of ICD-9-CM diagnosis codes**

In practice, ICD-9-CM diagnoses are represented by 3- to 5-character codes with explicit decimals. In the files you downloaded and in the vast majority of data files, ICD-9-CM diagnoses



are represented as 5-character alphanumeric codes with implicit decimals. (Alphanumeric codes are always enclosed in quotation marks.) Examples are given below.

Condition	ICD-9-CM diagnosis code	Alpha code (implicit decimals)
Pneumococcal pneumonia	481	'481 '
Pneumonia due to Klebsiella pneumoniae	482.0	'4820 '
Pneumonia due to Escherichia coli	482.82	'48282'
Single liveborn infant, born in hospital, delivered by cesarean delivery	V30.01	'V3001'

For proper handling of diagnosis codes:

- Alphanumeric diagnosis codes must be left-justified so that there are 2 spaces following a 3-character diagnosis code and 1 space following a 4-character diagnosis code.
- Trailing blanks should never be zero-padded (filled with zeroes so that all 5 characters are filled for codes that should be 3 or 4 characters long).
- Leading zeroes must be preserved; they are significant.

### **Representation of ICD-9-CM procedure codes**

In practice, ICD-9-CM procedures are represented by 3- or 4-character codes with explicit decimals. In the accompanying files and in the vast majority of data files, ICD-9-CM procedures are represented as 4-character alphanumeric codes with implicit decimals. (Alphanumeric codes are always enclosed in quotation marks.) Examples are given below.

Procedure	ICD-9-CM procedure code	Alpha code (implicit decimals)
Incision of prostate	60.0	'600 '
Closed biopsy of prostate	60.11	'6011'

For proper handling of procedure codes:

- Alphanumeric procedure codes must be left-justified, so that there is always 1 space following a 3-character procedure code.
- Trailing blanks should never be zero-padded (filled with zeroes so that all 4 characters are filled for codes that should be 3 characters long).
- Leading zeroes must be preserved; they are significant.

## References

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Public Health Service and Health Care Financing Administration. International classification of diseases, 9th revision, clinical modification. Vols. 1, 2, and 3; fifth edition. Washington, DC: Public Health Service; 1994. DHHS Publication No. (PHS) 94-1260.

**Table 1. Clinical Classifications Software diagnosis category labels (single-level)**

1. Tuberculosis
2. Septicemia (except in labor)
3. Bacterial infection, unspecified site
4. Mycoses
5. HIV infection
6. Hepatitis
7. Viral infection
8. Other infections, including parasitic
9. Sexually transmitted infections (not HIV or hepatitis)
10. Immunizations and screening for infectious disease
11. Cancer of head and neck
12. Cancer of esophagus
13. Cancer of stomach
14. Cancer of colon
15. Cancer of rectum and anus
16. Cancer of liver and intrahepatic bile duct
17. Cancer of pancreas
18. Cancer of other GI organs, peritoneum
19. Cancer of bronchus, lung
20. Cancer, other respiratory and intrathoracic
21. Cancer of bone and connective tissue
22. Melanomas of skin
23. Other non-epithelial cancer of skin
24. Cancer of breast
25. Cancer of uterus
26. Cancer of cervix
27. Cancer of ovary
28. Cancer of other female genital organs
29. Cancer of prostate
30. Cancer of testis
31. Cancer of other male genital organs
32. Cancer of bladder
33. Cancer of kidney and renal pelvis
34. Cancer of other urinary organs
35. Cancer of brain and nervous system
36. Cancer of thyroid
37. Hodgkin's disease
38. Non-Hodgkin's lymphoma
39. Leukemias
40. Multiple myeloma
41. Cancer, other and unspecified primary
42. Secondary malignancies
43. Malignant neoplasm without specification of site
44. Neoplasms of unspecified nature or uncertain behavior
45. Maintenance chemotherapy, radiotherapy
46. Benign neoplasm of uterus
47. Other and unspecified benign neoplasm

48. Thyroid disorders
49. Diabetes mellitus without complication
50. Diabetes mellitus with complications
51. Other endocrine disorders
52. Nutritional deficiencies
53. Disorders of lipid metabolism
54. Gout and other crystal arthropathies
55. Fluid and electrolyte disorders
56. Cystic fibrosis
57. Immunity disorders
58. Other nutritional, endocrine, and metabolic disorders
59. Deficiency and other anemia
60. Acute posthemorrhagic anemia
61. Sickle cell anemia
62. Coagulation and hemorrhagic disorders
63. Diseases of white blood cells
64. Other hematologic conditions
65. Mental retardation
66. Alcohol-related mental disorders
67. Substance-related mental disorders
68. Senility and organic mental disorders
69. Affective disorders
70. Schizophrenia and related disorders
71. Other psychoses
72. Anxiety, somatoform, dissociative, and personality disorders
73. Preadult disorders
74. Other mental conditions
75. Personal history of mental disorder, mental and behavioral problems, observation and screening for mental condition
76. Meningitis (except that caused by tuberculosis or sexually transmitted disease)
77. Encephalitis (except that caused by tuberculosis or sexually transmitted disease)
78. Other CNS infection and poliomyelitis
79. Parkinson's disease
80. Multiple sclerosis
81. Other hereditary and degenerative nervous system conditions
82. Paralysis
83. Epilepsy, convulsions
84. Headache, including migraine
85. Coma, stupor, and brain damage
86. Cataract
87. Retinal detachments, defects, vascular occlusion, and retinopathy
88. Glaucoma
89. Blindness and vision defects
90. Inflammation, infection of eye (except that caused by tuberculosis or sexually transmitted disease)
91. Other eye disorders
92. Otitis media and related conditions
93. Conditions associated with dizziness or vertigo
94. Other ear and sense organ disorders
95. Other nervous system disorders

96. Heart valve disorders
97. Peri-, endo-, and myocarditis, cardiomyopathy (except that caused by tuberculosis or sexually transmitted disease)
98. Essential hypertension
99. Hypertension with complications and secondary hypertension
100. Acute myocardial infarction
101. Coronary atherosclerosis and other heart disease
102. Nonspecific chest pain
103. Pulmonary heart disease
104. Other and ill-defined heart disease
105. Conduction disorders
106. Cardiac dysrhythmias
107. Cardiac arrest and ventricular fibrillation
108. Congestive heart failure, nonhypertensive
109. Acute cerebrovascular disease
110. Occlusion or stenosis of precerebral arteries
111. Other and ill-defined cerebrovascular disease
112. Transient cerebral ischemia
113. Late effects of cerebrovascular disease
114. Peripheral and visceral atherosclerosis
115. Aortic, peripheral, and visceral artery aneurysms
116. Aortic and peripheral arterial embolism or thrombosis
117. Other circulatory disease
118. Phlebitis, thrombophlebitis and thromboembolism
119. Varicose veins of lower extremity
120. Hemorrhoids
121. Other diseases of veins and lymphatics
122. Pneumonia (except that caused by tuberculosis or sexually transmitted disease)
123. Influenza
124. Acute and chronic tonsillitis
125. Acute bronchitis
126. Other upper respiratory infections
127. Chronic obstructive pulmonary disease and bronchiectasis
128. Asthma
129. Aspiration pneumonitis, food/vomitus
130. Pleurisy, pneumothorax, pulmonary collapse
131. Respiratory failure, insufficiency, arrest (adult)
132. Lung disease due to external agents
133. Other lower respiratory disease
134. Other upper respiratory disease
135. Intestinal infection
136. Disorders of teeth and jaw
137. Diseases of mouth, excluding dental
138. Esophageal disorders
139. Gastroduodenal ulcer (except hemorrhage)
140. Gastritis and duodenitis
141. Other disorders of stomach and duodenum
142. Appendicitis and other appendiceal conditions
143. Abdominal hernia

144. Regional enteritis and ulcerative colitis
145. Intestinal obstruction without hernia
146. Diverticulosis and diverticulitis
147. Anal and rectal conditions
148. Peritonitis and intestinal abscess
149. Biliary tract disease
150. Liver disease, alcohol-related
151. Other liver diseases
152. Pancreatic disorders (not diabetes)
153. Gastrointestinal hemorrhage
154. Noninfectious gastroenteritis
155. Other gastrointestinal disorders
156. Nephritis, nephrosis, renal sclerosis
157. Acute and unspecified renal failure
158. Chronic renal failure
159. Urinary tract infections
160. Calculus of urinary tract
161. Other diseases of kidney and ureters
162. Other diseases of bladder and urethra
163. Genitourinary symptoms and ill-defined conditions
164. Hyperplasia of prostate
165. Inflammatory conditions of male genital organs
166. Other male genital disorders
167. Nonmalignant breast conditions
168. Inflammatory diseases of female pelvic organs
169. Endometriosis
170. Prolapse of female genital organs
171. Menstrual disorders
172. Ovarian cyst
173. Menopausal disorders
174. Female infertility
175. Other female genital disorders
176. Contraceptive and procreative management
177. Spontaneous abortion
178. Induced abortion
179. Postabortion complications
180. Ectopic pregnancy
181. Other complications of pregnancy
182. Hemorrhage during pregnancy, abruptio placenta, placenta previa
183. Hypertension complicating pregnancy, childbirth, and the puerperium
184. Early or threatened labor
185. Prolonged pregnancy
186. Diabetes or abnormal glucose tolerance complicating pregnancy, childbirth, or the puerperium
187. Malposition, malpresentation
188. Fetopelvic disproportion, obstruction
189. Previous C-section
190. Fetal distress and abnormal forces of labor
191. Polyhydramnios and other problems of amniotic cavity
192. Umbilical cord complication

193. Trauma to perineum and vulva
194. Forceps delivery
195. Other complications of birth, puerperium affecting management of mother
196. Normal pregnancy and/or delivery
197. Skin and subcutaneous tissue infections
198. Other inflammatory condition of skin
199. Chronic ulcer of skin
200. Other skin disorders
201. Infective arthritis and osteomyelitis (except that caused by tuberculosis or sexually transmitted disease)
202. Rheumatoid arthritis and related disease
203. Osteoarthritis
204. Other non-traumatic joint disorders
205. Spondylosis, intervertebral disc disorders, other back problems
206. Osteoporosis
207. Pathological fracture
208. Acquired foot deformities
209. Other acquired deformities
210. Systemic lupus erythematosus and connective tissue disorders
211. Other connective tissue disease
212. Other bone disease and musculoskeletal deformities
213. Cardiac and circulatory congenital anomalies
214. Digestive congenital anomalies
215. Genitourinary congenital anomalies
216. Nervous system congenital anomalies
217. Other congenital anomalies
218. Liveborn
219. Short gestation, low birth weight, and fetal growth retardation
220. Intrauterine hypoxia and birth asphyxia
221. Respiratory distress syndrome
222. Hemolytic jaundice and perinatal jaundice
223. Birth trauma
224. Other perinatal conditions
225. Joint disorders and dislocations, trauma-related
226. Fracture of neck of femur (hip)
227. Spinal cord injury
228. Skull and face fractures
229. Fracture of upper limb
230. Fracture of lower limb
231. Other fractures
232. Sprains and strains
233. Intracranial injury
234. Crushing injury or internal injury
235. Open wounds of head, neck, and trunk
236. Open wounds of extremities
237. Complication of device, implant or graft
238. Complications of surgical procedures or medical care
239. Superficial injury, contusion
240. Burns
241. Poisoning by psychotropic agents



- 242. Poisoning by other medications and drugs
- 243. Poisoning by nonmedicinal substances
- 244. Other injuries and conditions due to external causes
- 245. Syncope
- 246. Fever of unknown origin
- 247. Lymphadenitis
- 248. Gangrene
- 249. Shock
- 250. Nausea and vomiting
- 251. Abdominal pain
- 252. Malaise and fatigue
- 253. Allergic reactions
- 254. Rehabilitation care, fitting of prostheses, and adjustment of devices
- 255. Administrative/social admission
- 256. Medical examination/evaluation
- 257. Other aftercare
- 258. Other screening for suspected conditions (not mental disorders or infectious disease)
- 259. Residual codes, unclassified
- 260. E codes (external causes of injury and poisoning)

**Table 2. Clinical Classifications Software procedure category labels (single-level)**

1. Incision and excision of CNS
2. Insertion, replacement, or removal of extracranial ventricular shunt
3. Laminectomy, excision intervertebral disc
4. Diagnostic spinal tap
5. Insertion of catheter or spinal stimulator and injection into spinal canal
6. Decompression peripheral nerve
7. Other diagnostic nervous system procedures
8. Other non-OR or closed therapeutic nervous system procedures
9. Other OR therapeutic nervous system procedures
10. Thyroidectomy, partial or complete
11. Diagnostic endocrine procedures
12. Other therapeutic endocrine procedures
13. Corneal transplant
14. Glaucoma procedures
15. Lens and cataract procedures
16. Repair of retinal tear, detachment
17. Destruction of lesion of retina and choroid
18. Diagnostic procedures on eye
19. Other therapeutic procedures on eyelids, conjunctiva, cornea
20. Other intraocular therapeutic procedures
21. Other extraocular muscle and orbit therapeutic procedures
22. Tympanoplasty
23. Myringotomy
24. Mastoidectomy
25. Diagnostic procedures on ear
26. Other therapeutic ear procedures
27. Control of epistaxis
28. Plastic procedures on nose
29. Dental procedures
30. Tonsillectomy and/or adenoidectomy
31. Diagnostic procedures on nose, mouth and pharynx
32. Other non-OR therapeutic procedures on nose, mouth and pharynx
33. Other OR therapeutic procedures on nose, mouth and pharynx
34. Tracheostomy, temporary and permanent
35. Tracheoscopy and laryngoscopy with biopsy
36. Lobectomy or pneumonectomy
37. Diagnostic bronchoscopy and biopsy of bronchus
38. Other diagnostic procedures on lung and bronchus
39. Incision of pleura, thoracentesis, chest drainage
40. Other diagnostic procedures of respiratory tract and mediastinum
41. Other non-OR therapeutic procedures on respiratory system
42. Other OR therapeutic procedures on respiratory system
43. Heart valve procedures
44. Coronary artery bypass graft (CABG)
45. Percutaneous transluminal coronary angioplasty (PTCA)
46. Coronary thrombolysis
47. Diagnostic cardiac catheterization, coronary arteriography

48. Insertion, revision, replacement, removal of cardiac pacemaker or cardioverter/defibrillator
49. Other OR heart procedures
50. Extracorporeal circulation auxiliary to open heart procedures
51. Endarterectomy, vessel of head and neck
52. Aortic resection, replacement or anastomosis
53. Varicose vein stripping, lower limb
54. Other vascular catheterization, not heart
55. Peripheral vascular bypass
56. Other vascular bypass and shunt, not heart
57. Creation, revision and removal of arteriovenous fistula or vessel-to-vessel cannula for dialysis
58. Hemodialysis
59. Other OR procedures on vessels of head and neck
60. Embolectomy and endarterectomy of lower limbs
61. Other OR procedures on vessels other than head and neck
62. Other diagnostic cardiovascular procedures
63. Other non-OR therapeutic cardiovascular procedures
64. Bone marrow transplant
65. Bone marrow biopsy
66. Procedures on spleen
67. Other therapeutic procedures, hemic and lymphatic system
68. Injection or ligation of esophageal varices
69. Esophageal dilatation
70. Upper gastrointestinal endoscopy, biopsy
71. Gastrostomy, temporary and permanent
72. Colostomy, temporary and permanent
73. Ileostomy and other enterostomy
74. Gastrectomy, partial and total
75. Small bowel resection
76. Colonoscopy and biopsy
77. Proctoscopy and anorectal biopsy
78. Colorectal resection
79. Local excision of large intestine lesion (not endoscopic)
80. Appendectomy
81. Hemorrhoid procedures
82. Endoscopic retrograde cannulation of pancreas (ERCP)
83. Biopsy of liver
84. Cholecystectomy and common duct exploration
85. Inguinal and femoral hernia repair
86. Other hernia repair
87. Laparoscopy
88. Abdominal paracentesis
89. Exploratory laparotomy
90. Excision, lysis peritoneal adhesions
91. Peritoneal dialysis
92. Other bowel diagnostic procedures
93. Other non-OR upper GI therapeutic procedures
94. Other OR upper GI therapeutic procedures
95. Other non-OR lower GI therapeutic procedures
96. Other OR lower GI therapeutic procedures

97. Other gastrointestinal diagnostic procedures
98. Other non-OR gastrointestinal therapeutic procedures
99. Other OR gastrointestinal therapeutic procedures
100. Endoscopy and endoscopic biopsy of the urinary tract
101. Transurethral excision, drainage, or removal urinary obstruction
102. Ureteral catheterization
103. Nephrotomy and nephrostomy
104. Nephrectomy, partial or complete
105. Kidney transplant
106. Genitourinary incontinence procedures
107. Extracorporeal lithotripsy, urinary
108. Indwelling catheter
109. Procedures on the urethra
110. Other diagnostic procedures of urinary tract
111. Other non-OR therapeutic procedures of urinary tract
112. Other OR therapeutic procedures of urinary tract
113. Transurethral resection of prostate (TURP)
114. Open prostatectomy
115. Circumcision
116. Diagnostic procedures, male genital
117. Other non-OR therapeutic procedures, male genital
118. Other OR therapeutic procedures, male genital
119. Oophorectomy, unilateral and bilateral
120. Other operations on ovary
121. Ligation of fallopian tubes
122. Removal of ectopic pregnancy
123. Other operations on fallopian tubes
124. Hysterectomy, abdominal and vaginal
125. Other excision of cervix and uterus
126. Abortion (termination of pregnancy)
127. Dilatation and curettage (D&C), aspiration after delivery or abortion
128. Diagnostic dilatation and curettage (D&C)
129. Repair of cystocele and rectocele, obliteration of vaginal vault
130. Other diagnostic procedures female organs
131. Other non-OR therapeutic procedures, female organs
132. Other OR therapeutic procedures, female organs
133. Episiotomy
134. Cesarean section
135. Forceps, vacuum, and breech delivery
136. Artificial rupture of membranes to assist delivery
137. Other procedures to assist delivery
138. Diagnostic amniocentesis
139. Fetal monitoring
140. Repair of current obstetric laceration
141. Other therapeutic obstetrical procedures
142. Partial excision bone
143. Bunionectomy or repair of toe deformities
144. Treatment, facial fracture or dislocation
145. Treatment, fracture or dislocation of radius and ulna

146. Treatment, fracture or dislocation of hip and femur
147. Treatment, fracture or dislocation of lower extremity (other than hip or femur)
148. Other fracture and dislocation procedure
149. Arthroscopy
150. Division of joint capsule, ligament or cartilage
151. Excision of semilunar cartilage of knee
152. Arthroplasty knee
153. Hip replacement, total and partial
154. Arthroplasty other than hip or knee
155. Arthrocentesis
156. Injections and aspirations of muscles, tendons, bursa, joints and soft tissue
157. Amputation of lower extremity
158. Spinal fusion
159. Other diagnostic procedures on musculoskeletal system
160. Other therapeutic procedures on muscles and tendons
161. Other OR therapeutic procedures on bone
162. Other OR therapeutic procedures on joints
163. Other non-OR therapeutic procedures on musculoskeletal system
164. Other OR therapeutic procedures on musculoskeletal system
165. Breast biopsy and other diagnostic procedures on breast
166. Lumpectomy, quadrantectomy of breast
167. Mastectomy
168. Incision and drainage, skin and subcutaneous tissue
169. Debridement of wound, infection or burn
170. Excision of skin lesion
171. Suture of skin and subcutaneous tissue
172. Skin graft
173. Other diagnostic procedures on skin and subcutaneous tissue
174. Other non-OR therapeutic procedures on skin and breast
175. Other OR therapeutic procedures on skin and breast
176. Other organ transplantation
177. Computerized axial tomography (CT) scan head
178. CT scan chest
179. CT scan abdomen
180. Other CT scan
181. Myelogram
182. Mammography
183. Routine chest X-ray
184. Intraoperative cholangiogram
185. Upper gastrointestinal X-ray
186. Lower gastrointestinal X-ray
187. Intravenous pyelogram
188. Cerebral arteriogram
189. Contrast aortogram
190. Contrast arteriogram of femoral and lower extremity arteries
191. Arterio- or venogram (not heart and head)
192. Diagnostic ultrasound of head and neck
193. Diagnostic ultrasound of heart (echocardiogram)

194. Diagnostic ultrasound of gastrointestinal tract
195. Diagnostic ultrasound of urinary tract
196. Diagnostic ultrasound of abdomen or retroperitoneum
197. Other diagnostic ultrasound
198. Magnetic resonance imaging
199. Electroencephalogram (EEG)
200. Nonoperative urinary system measurements
201. Cardiac stress tests
202. Electrocardiogram
203. Electrographic cardiac monitoring
204. Swan-Ganz catheterization for monitoring
205. Arterial blood gases
206. Microscopic examination (bacterial smear, culture, toxicology)
207. Radioisotope bone scan
208. Radioisotope pulmonary scan
209. Radioisotope scan and function studies
210. Other radioisotope scan
211. Therapeutic radiology
212. Diagnostic physical therapy
213. Physical therapy exercises, manipulation, and other procedures
214. Traction, splints, and other wound care
215. Other physical therapy and rehabilitation
216. Respiratory intubation and mechanical ventilation
217. Other respiratory therapy
218. Psychological and psychiatric evaluation and therapy
219. Alcohol and drug rehabilitation/detoxification
220. Ophthalmologic and otologic diagnosis and treatment
221. Nasogastric tube
222. Blood transfusion
223. Enteral and parenteral nutrition
224. Cancer chemotherapy
225. Conversion of cardiac rhythm
226. Other diagnostic radiology and related techniques
227. Other diagnostic procedures (interview, evaluation, consultation)
228. Prophylactic vaccinations and inoculations
229. Nonoperative removal of foreign body
230. Extracorporeal shock wave lithotripsy, other than urinary
231. Other therapeutic procedures

**Table 3. Clinical Classifications Software diagnosis category labels (multi-level)**

- 1 Infectious and parasitic diseases
  - 1.1 Bacterial infection
    - 1.1.1 Tuberculosis [1.]
    - 1.1.2 Septicemia (except in labor) [2.]
      - 1.1.2.1 Streptococcal septicemia
      - 1.1.2.2 Staphylococcal septicemia
      - 1.1.2.3 E. Coli septicemia
      - 1.1.2.4 Other gram negative septicemia
      - 1.1.2.5 Other specified septicemia
      - 1.1.2.6 Unspecified septicemia
    - 1.1.3 Sexually transmitted infections (not HIV or hepatitis) [9.]
    - 1.1.4 Other bacterial infections [3.]
  - 1.2 Mycoses [4.]
    - 1.2.1 Candidiasis of the mouth (thrush)
    - 1.2.2 Other mycoses
  - 1.3 Viral infection
    - 1.3.1 HIV infection [5.]
    - 1.3.2 Hepatitis [6.]
    - 1.3.3 Other viral infections [7.]
      - 1.3.3.1 Herpes zoster infection
      - 1.3.3.2 Herpes simplex infection
      - 1.3.3.3 Other and unspecified viral infection
  - 1.4 Other infections, including parasitic [8.]
  - 1.5 Immunizations and screening for infectious disease [10.]
- 2 Neoplasms
  - 2.1 Colorectal cancer
    - 2.1.1 Cancer of colon [14.]
    - 2.1.2 Cancer of rectum and anus [15.]
  - 2.2 Other gastrointestinal cancer
    - 2.2.1 Cancer of esophagus [12.]
    - 2.2.2 Cancer of stomach [13.]
    - 2.2.3 Cancer of liver and intrahepatic bile duct [16.]
    - 2.2.4 Cancer of pancreas [17.]
    - 2.2.5 Cancer of other GI organs, peritoneum [18.]
  - 2.3 Cancer of bronchus, lung [19.]
  - 2.4 Cancer of skin
    - 2.4.1 Melanomas of skin [22.]
    - 2.4.2 Other non-epithelial cancer of skin [23.]
  - 2.5 Cancer of breast [24.]
  - 2.6 Cancer of uterus and cervix
    - 2.6.1 Cancer of uterus [25.]
    - 2.6.2 Cancer of cervix [26.]
  - 2.7 Cancer of ovary and other female genital organs
    - 2.7.1 Cancer of ovary [27.]
    - 2.7.2 Cancer of other female genital organs [28.]
  - 2.8 Cancer of male genital organs
    - 2.8.1 Cancer of prostate [29.]
    - 2.8.2 Cancer of testis [30.]

- 2.8.3 Cancer of other male genital organs [31.]
  - 2.9 Cancer of urinary organs
    - 2.9.1 Cancer of bladder [32.]
    - 2.9.2 Cancer of kidney and renal pelvis [33.]
    - 2.9.3 Cancer of other urinary organs [34.]
  - 2.10 Cancer of lymphatic and hematopoietic tissue
    - 2.10.1 Hodgkin's disease [37.]
    - 2.10.2 Non-Hodgkin's lymphoma [38.]
    - 2.10.3 Leukemias [39.]
    - 2.10.4 Multiple myeloma [40.]
  - 2.11 Cancer, other primary
    - 2.11.1 Cancer of head and neck [11.]
    - 2.11.2 Cancer, other respiratory and intrathoracic [20.]
    - 2.11.3 Cancer of bone and connective tissue [21.]
    - 2.11.4 Cancer of brain and nervous system [35.]
    - 2.11.5 Cancer of thyroid [36.]
    - 2.11.6 Cancer, other and unspecified primary [41.]
  - 2.12 Secondary malignancies [42.]
    - 2.12.1 Secondary malignancy of lymph nodes
    - 2.12.2 Secondary malignancy of lung
    - 2.12.3 Secondary malignancy of liver
    - 2.12.4 Secondary malignancy of brain/spine
    - 2.12.5 Secondary malignancy of bone
    - 2.12.6 Other secondary malignancy
  - 2.13 Malignant neoplasm without specification of site [43.]
  - 2.14 Neoplasms of unspecified nature or uncertain behavior [44.]
  - 2.15 Maintenance chemotherapy, radiotherapy [45.]
    - 2.15.1 Radiotherapy
    - 2.15.2 Chemotherapy
  - 2.16 Benign neoplasms
    - 2.16.1 Benign neoplasm of uterus [46.]
    - 2.16.2 Other and unspecified benign neoplasm [47.]
      - 2.16.2.1 Benign neoplasm of ovary
      - 2.16.2.2 Benign neoplasm of colon
      - 2.16.2.3 Benign neoplasm of the thyroid
      - 2.16.2.4 Benign neoplasm of cerebral meninges
      - 2.16.2.5 Other and unspecified benign neoplasms
- 3 Endocrine, nutritional, and metabolic diseases and immunity disorders
  - 3.1 Thyroid disorders [48.]
    - 3.1.1 Thyrotoxicosis with or without goiter
    - 3.1.2 Other thyroid disorders
  - 3.2 Diabetes mellitus without complication [49.]
  - 3.3 Diabetes mellitus with complications [50.]
    - 3.3.1 Diabetes with ketoacidosis or uncontrolled diabetes
    - 3.3.2 Diabetes with renal manifestations
    - 3.3.3 Diabetes with ophthalmic manifestations
    - 3.3.4 Diabetes with neurological manifestations
    - 3.3.5 Diabetes with circulatory manifestations
    - 3.3.6 Diabetes with unspecified complications



- 3.3.7 Diabetes with other manifestations
  - 3.4 Other endocrine disorders [51.]
  - 3.5 Nutritional deficiencies [52.]
    - 3.5.1 Unspecified protein-calorie malnutrition
    - 3.5.2 Other malnutrition
  - 3.6 Disorders of lipid metabolism [53.]
  - 3.7 Gout and other crystal arthropathies [54.]
  - 3.8 Fluid and electrolyte disorders [55.]
    - 3.8.1 Hyposmolality
    - 3.8.2 Hypovolemia
    - 3.8.3 Hyperpotassemia
    - 3.8.4 Hypopotassemia
    - 3.8.5 Other fluid and electrolyte disorders
  - 3.9 Cystic fibrosis [56.]
  - 3.10 Immunity disorders [57.]
  - 3.11 Other nutritional, endocrine, and metabolic disorders [58.]
    - 3.11.1 Disorders of mineral metabolism
    - 3.11.2 Obesity
    - 3.11.3 Other and unspecified metabolic, nutritional, and endocrine disorders
- 4 Diseases of the blood and blood-forming organs
  - 4.1 Anemia
    - 4.1.1 Acute posthemorrhagic anemia [60.]
    - 4.1.2 Sickle cell anemia [61.]
    - 4.1.3 Deficiency and other anemia [59.]
      - 4.1.3.1 Iron deficiency anemia
      - 4.1.3.2 Other deficiency anemia
      - 4.1.3.3 Aplastic anemia
      - 4.1.3.4 Chronic blood loss anemia
      - 4.1.3.5 Acquired hemolytic anemia
      - 4.1.3.6 Other specified anemia
      - 4.1.3.7 Anemia, unspecified
  - 4.2 Coagulation and hemorrhagic disorders [62.]
    - 4.2.1 Coagulation defects
    - 4.2.2 Thrombocytopenia
    - 4.2.3 Other coagulation and hemorrhagic disorders
  - 4.3 Diseases of white blood cells [63.]
  - 4.4 Other hematologic conditions [64.]
- 5 Mental disorders
  - 5.1 Mental retardation [65.]
  - 5.2 Alcohol and substance-related mental disorders
    - 5.2.1 Alcohol-related mental disorders [66.]
      - 5.2.1.1 Acute alcoholic intoxication
      - 5.2.1.2 Other and unspecified alcohol dependence
      - 5.2.1.3 Nondependent alcohol abuse
      - 5.2.1.4 Other alcohol-related mental disorders
    - 5.2.2 Substance-related mental disorders [67.]
      - 5.2.2.1 Opioid dependence
      - 5.2.2.2 Cocaine dependence
      - 5.2.2.3 Other, combined, and unspecified drug dependence

- 5.2.2.4 Cocaine abuse
    - 5.2.2.5 Other, mixed, or unspecified drug abuse
    - 5.2.2.6 Other substance-related mental disorders
  - 5.3 Senility and organic mental disorders [68.]
    - 5.3.1 Senile dementia, uncomplicated
    - 5.3.2 Arteriosclerotic dementia
    - 5.3.3 Transient organic psychotic conditions
    - 5.3.4 Specific nonpsychotic mental disorders due to organic brain damage
    - 5.3.5 Presenile dementia, uncomplicated
    - 5.3.6 Senile dementia with delirium
    - 5.3.7 Other senility and organic mental disorders
  - 5.4 Affective disorders [69.]
    - 5.4.1 Major depressive disorder, single episode
    - 5.4.2 Major depressive disorder, recurrent episode
    - 5.4.3 Neurotic depression
    - 5.4.4 Bipolar affective disorder
    - 5.4.5 Manic-depressive psychosis
    - 5.4.6 Other affective disorders
  - 5.5 Schizophrenia and related disorders [70.]
    - 5.5.1 Paranoid schizophrenia
    - 5.5.2 Schizo-affective type
    - 5.5.3 Other schizophrenia
  - 5.6 Other psychoses [71.]
  - 5.7 Anxiety, somatoform, dissociative, and personality disorders [72.]
    - 5.7.1 Anxiety states
    - 5.7.2 Personality disorders
    - 5.7.3 Other anxiety, somatoform, dissociative, and personality disorders
  - 5.8 Preadult disorders [73.]
  - 5.9 Other mental conditions [74.]
    - 5.9.1 Adjustment reaction
      - 5.9.1.1 Brief depressive reaction
      - 5.9.1.2 Other adjustment reaction
    - 5.9.2 Depressive disorder, not elsewhere classified
    - 5.9.3 Other and unspecified mental conditions
  - 5.10 Personal history of mental disorder, screening for mental condition [75.]
- 6 Diseases of the nervous system and sense organs
  - 6.1 Central nervous system infection
    - 6.1.1 Meningitis (except that caused by TB or STD) [76.]
    - 6.1.2 Encephalitis (except that caused by TB or STD) [77.]
    - 6.1.3 Other CNS infection and poliomyelitis [78.]
  - 6.2 Hereditary and degenerative nervous system conditions
    - 6.2.1 Parkinson's disease [79.]
    - 6.2.2 Multiple sclerosis [80.]
    - 6.2.3 Other hereditary and degenerative nervous system conditions [81.]
      - 6.2.3.1 Disorders of the autonomic nervous system
      - 6.2.3.2 Other and unspecified hereditary and degenerative nervous conditions
  - 6.3 Paralysis [82.]
    - 6.3.1 Hemiplegia
    - 6.3.2 Other paralysis

- 6.4 Epilepsy, convulsions [83.]
  - 6.4.1 Epilepsy
  - 6.4.2 Convulsions
- 6.5 Headache, including migraine [84.]
  - 6.5.1 Migraine
  - 6.5.2 Other headache
- 6.6 Coma, stupor, and brain damage [85.]
- 6.7 Eye disorders
  - 6.7.1 Cataract [86.]
  - 6.7.2 Retinal detachments, defects, vascular occlusion, and retinopathy [87.]
    - 6.7.2.1 Retinal detachment with defect
    - 6.7.2.2 Other retinal detachment or defect
    - 6.7.2.3 Other retinal disorders
  - 6.7.3 Glaucoma [88.]
  - 6.7.4 Blindness and vision defects [89.]
  - 6.7.5 Inflammation, infection of eye (except that caused by TB or STD) [90.]
  - 6.7.6 Other eye disorders [91.]
- 6.8 Ear conditions
  - 6.8.1 Otitis media and related conditions [92.]
    - 6.8.1.1 Suppurative and unspecified otitis media
    - 6.8.1.2 Other otitis media and related conditions
  - 6.8.2 Conditions associated with dizziness or vertigo [93.]
  - 6.8.3 Other ear and sense organ disorders [94.]
- 6.9 Other nervous system disorders [95.]
  - 6.9.1 Disorders of the peripheral nervous system
  - 6.9.2 Other central nervous system disorders
  - 6.9.3 Other nervous system symptoms and disorders
- 7 Diseases of the circulatory system
  - 7.1 Hypertension
    - 7.1.1 Essential hypertension [98.]
    - 7.1.2 Hypertension with complications and secondary hypertension [99.]
      - 7.1.2.1 Hypertensive heart and/or renal disease
      - 7.1.2.2 Other hypertensive complications
  - 7.2 Diseases of the heart
    - 7.2.1 Heart valve disorders [96.]
      - 7.2.1.1 Chronic rheumatic disease of the heart valves
      - 7.2.1.2 Nonrheumatic mitral valve disorders
      - 7.2.1.3 Nonrheumatic aortic valve disorders
      - 7.2.1.4 Other heart valve disorders
    - 7.2.2 Peri-, endo-, and myocarditis, cardiomyopathy (except that caused by TB or STD) [97.]
      - 7.2.2.1 Cardiomyopathy
      - 7.2.2.2 Other peri-, endo-, and myocarditis
    - 7.2.3 Acute myocardial infarction [100.]
    - 7.2.4 Coronary atherosclerosis and other heart disease [101.]
      - 7.2.4.1 Angina pectoris
      - 7.2.4.2 Unstable angina (intermediate coronary syndrome)
      - 7.2.4.3 Other acute and subacute forms of ischemic heart disease
      - 7.2.4.4 Coronary atherosclerosis
      - 7.2.4.5 Other forms of chronic heart disease

- 7.2.5 Nonspecific chest pain [102.]
- 7.2.6 Pulmonary heart disease [103.]
- 7.2.7 Other and ill-defined heart disease [104.]
- 7.2.8 Conduction disorders [105.]
  - 7.2.8.1 Atrioventricular block
  - 7.2.8.2 Bundle branch block
  - 7.2.8.3 Anomalous atrioventricular excitation
  - 7.2.8.4 Other conduction disorders
- 7.2.9 Cardiac dysrhythmias [106.]
  - 7.2.9.1 Paroxysmal supraventricular tachycardia
  - 7.2.9.2 Paroxysmal ventricular tachycardia
  - 7.2.9.3 Atrial fibrillation
  - 7.2.9.4 Atrial flutter
  - 7.2.9.5 Premature beats
  - 7.2.9.6 Sinoatrial node dysfunction
  - 7.2.9.7 Other cardiac dysrhythmias
- 7.2.10 Cardiac arrest and ventricular fibrillation [107.]
- 7.2.11 Congestive heart failure, nonhypertensive [108.]
  - 7.2.11.1 Congestive heart failure
  - 7.2.11.2 Heart failure
- 7.3 Cerebrovascular disease
  - 7.3.1 Acute cerebrovascular disease [109.]
    - 7.3.1.1 Intracranial hemorrhage
    - 7.3.1.2 Occlusion of cerebral arteries
    - 7.3.1.3 Acute but ill-defined cerebrovascular accident
  - 7.3.2 Occlusion or stenosis of precerebral arteries [110.]
  - 7.3.3 Other and ill-defined cerebrovascular disease [111.]
  - 7.3.4 Transient cerebral ischemia [112.]
  - 7.3.5 Late effects of cerebrovascular disease [113.]
- 7.4 Diseases of arteries, arterioles, and capillaries
  - 7.4.1 Peripheral and visceral atherosclerosis [114.]
    - 7.4.1.1 Atherosclerosis of arteries of extremities
    - 7.4.1.2 Peripheral vascular disease unspecified
    - 7.4.1.3 Other peripheral and visceral atherosclerosis
  - 7.4.2 Aortic, peripheral, and visceral artery aneurysms [115.]
    - 7.4.2.1 Abdominal aortic aneurysm, without rupture
    - 7.4.2.2 Other aneurysm
  - 7.4.3 Aortic and peripheral arterial embolism or thrombosis [116.]
    - 7.4.3.1 Arterial embolism and thrombosis of lower extremity artery
    - 7.4.3.2 Other arterial embolism and thrombosis
  - 7.4.4 Other circulatory disease [117.]
    - 7.4.4.1 Hypotension
    - 7.4.4.2 Other and unspecified circulatory disease
- 7.5 Diseases of veins and lymphatics
  - 7.5.1 Phlebitis, thrombophlebitis and thromboembolism [118.]
    - 7.5.1.1 Phlebitis and thrombophlebitis
    - 7.5.1.2 Other venous embolism and thrombosis
  - 7.5.2 Varicose veins of lower extremity [119.]
  - 7.5.3 Hemorrhoids [120.]

- 7.5.4 Other diseases of veins and lymphatics [121.]
- 8 Diseases of the respiratory system
  - 8.1 Respiratory infections
    - 8.1.1 Pneumonia (except that caused by TB or STD) [122.]
      - 8.1.1.1 Pneumococcal pneumonia
      - 8.1.1.2 Other bacterial pneumonia
      - 8.1.1.3 Pneumonia, organism unspecified
      - 8.1.1.4 Other pneumonia
    - 8.1.2 Influenza [123.]
    - 8.1.3 Acute and chronic tonsillitis [124.]
    - 8.1.4 Acute bronchitis [125.]
    - 8.1.5 Other upper respiratory infections [126.]
      - 8.1.5.1 Acute upper respiratory infections of multiple or unspecified sites
      - 8.1.5.2 Chronic sinusitis
      - 8.1.5.3 Croup
      - 8.1.5.4 Other and unspecified upper respiratory infections
  - 8.2 Chronic obstructive pulmonary disease and bronchiectasis [127.]
    - 8.2.1 Emphysema
    - 8.2.2 Chronic airway obstruction, not otherwise specified
    - 8.2.3 Obstructive chronic bronchitis
    - 8.2.4 Other chronic pulmonary disease
  - 8.3 Asthma [128.]
    - 8.3.1 Chronic obstructive asthma
      - 8.3.1.1 Chronic obstructive asthma without status asthmaticus
      - 8.3.1.2 Chronic obstructive asthma with status asthmaticus
    - 8.3.2 Other and unspecified asthma
      - 8.3.2.1 Other asthma without status asthmaticus
      - 8.3.2.2 Other asthma with status asthmaticus
  - 8.4 Aspiration pneumonitis, food/vomitus [129.]
  - 8.5 Pleurisy, pneumothorax, pulmonary collapse [130.]
    - 8.5.1 Pleurisy, pleural effusion
    - 8.5.2 Pulmonary collapse, interstitial and compensatory emphysema
    - 8.5.3 Empyema and pneumothorax
  - 8.6 Respiratory failure, insufficiency, arrest (adult) [131.]
    - 8.6.1 Respiratory failure
    - 8.6.2 Other respiratory insufficiency
  - 8.7 Lung disease due to external agents [132.]
  - 8.8 Other lower respiratory disease [133.]
    - 8.8.1 Postinflammatory pulmonary fibrosis
    - 8.8.2 Painful respiration
    - 8.8.3 Other and unspecified lower respiratory disease
  - 8.9 Other upper respiratory disease [134.]
- 9 Diseases of the digestive system
  - 9.1 Intestinal infection [135.]
  - 9.2 Disorders of teeth and jaw [136.]
  - 9.3 Diseases of mouth, excluding dental [137.]
  - 9.4 Upper gastrointestinal disorders
    - 9.4.1 Esophageal disorders [138.]
      - 9.4.1.1 Esophagitis

- 9.4.1.2 Other esophageal disorders
  - 9.4.2 Gastroduodenal ulcer (except hemorrhage) [139.]
    - 9.4.2.1 Gastric ulcer
    - 9.4.2.2 Duodenal ulcer
    - 9.4.2.3 Peptic ulcer, site unspecified
    - 9.4.2.4 Gastrojejunal ulcer
  - 9.4.3 Gastritis and duodenitis [140.]
    - 9.4.3.1 Acute gastritis
    - 9.4.3.2 Other specified gastritis
    - 9.4.3.3 Unspecified gastritis and gastroduodenitis
    - 9.4.3.4 Duodenitis
  - 9.4.4 Other disorders of stomach and duodenum [141.]
- 9.5 Abdominal hernia [143.]
  - 9.5.1 Inguinal hernia
    - 9.5.1.1 Inguinal hernia with obstruction or gangrene
    - 9.5.1.2 Inguinal hernia without obstruction or gangrene
  - 9.5.2 Diaphragmatic hernia
  - 9.5.3 Other abdominal hernia
    - 9.5.3.1 Femoral hernia with obstruction/gangrene
    - 9.5.3.2 Femoral hernia without obstruction/gangrene
    - 9.5.3.3 Umbilical hernia with obstruction/gangrene
    - 9.5.3.4 Umbilical hernia without obstruction/gangrene
    - 9.5.3.5 Ventral hernia with obstruction/gangrene
    - 9.5.3.6 Ventral hernia without obstruction/gangrene
    - 9.5.3.7 Incisional hernia with obstruction/gangrene
    - 9.5.3.8 Incisional hernia without obstruction/gangrene
    - 9.5.3.9 Other and unspecified hernia
- 9.6 Lower gastrointestinal disorders
  - 9.6.1 Appendicitis and other appendiceal conditions [142.]
    - 9.6.1.1 Acute appendicitis with abscess or peritonitis
    - 9.6.1.2 Acute appendicitis without abscess or peritonitis
    - 9.6.1.3 Acute appendicitis, not otherwise specified
    - 9.6.1.4 Other appendiceal conditions
  - 9.6.2 Regional enteritis and ulcerative colitis [144.]
  - 9.6.3 Intestinal obstruction without hernia [145.]
    - 9.6.3.1 Paralytic ileus
    - 9.6.3.2 Impaction of intestine
    - 9.6.3.3 Peritoneal or intestinal adhesions
    - 9.6.3.4 Other intestinal obstruction
  - 9.6.4 Diverticulosis and diverticulitis [146.]
    - 9.6.4.1 Diverticulosis
    - 9.6.4.2 Diverticulitis
  - 9.6.5 Anal and rectal conditions [147.]
  - 9.6.6 Peritonitis and intestinal abscess [148.]
- 9.7 Biliary tract disease [149.]
  - 9.7.1 Cholelithiasis with acute cholecystitis
  - 9.7.2 Cholelithiasis with other cholecystitis
  - 9.7.3 Cholelithiasis without mention of cholecystitis
  - 9.7.4 Calculus of bile duct

- 9.7.5 Cholecystitis without cholelithiasis
    - 9.7.6 Other biliary tract disease
  - 9.8 Liver disease
    - 9.8.1 Liver disease, alcohol-related [150.]
    - 9.8.2 Other liver diseases [151.]
      - 9.8.2.1 Cirrhosis of liver without mention of alcohol
      - 9.8.2.2 Liver abscess and sequelae of chronic liver disease
      - 9.8.2.3 Ascites
      - 9.8.2.4 Other and unspecified liver disorders
  - 9.9 Pancreatic disorders (not diabetes) [152.]
    - 9.9.1 Acute pancreatitis
    - 9.9.2 Chronic pancreatitis
    - 9.9.3 Other pancreatic disorders
  - 9.10 Gastrointestinal hemorrhage [153.]
    - 9.10.1 Hemorrhage from gastrointestinal ulcer
    - 9.10.2 Melena
    - 9.10.3 Gastroesophageal laceration syndrome
    - 9.10.4 Other esophageal bleeding
    - 9.10.5 Hemorrhage of rectum and anus
    - 9.10.6 Hematemesis
    - 9.10.7 Hemorrhage of gastrointestinal tract
  - 9.11 Noninfectious gastroenteritis [154.]
  - 9.12 Other gastrointestinal disorders [155.]
    - 9.12.1 Constipation
    - 9.12.2 Dysphagia
    - 9.12.3 Other and unspecified gastrointestinal disorders
- 10 Diseases of the genitourinary system
  - 10.1 Diseases of the urinary system
    - 10.1.1 Nephritis, nephrosis, renal sclerosis [156.]
    - 10.1.2 Acute and unspecified renal failure [157.]
      - 10.1.2.1 Acute renal failure
      - 10.1.2.2 Unspecified renal failure
    - 10.1.3 Chronic renal failure [158.]
    - 10.1.4 Urinary tract infections [159.]
      - 10.1.4.1 Infections of kidney
      - 10.1.4.2 Cystitis and urethritis
      - 10.1.4.3 Urinary tract infection, site not specified
    - 10.1.5 Calculus of urinary tract [160.]
      - 10.1.5.1 Calculus of kidney
      - 10.1.5.2 Calculus of ureter
      - 10.1.5.3 Other and unspecified urinary calculus
    - 10.1.6 Other diseases of kidney and ureters [161.]
      - 10.1.6.1 Hydronephrosis
      - 10.1.6.2 Other and unspecified diseases of kidney and ureters
    - 10.1.7 Other diseases of bladder and urethra [162.]
      - 10.1.7.1 Bladder neck obstruction
      - 10.1.7.2 Other and unspecified diseases of bladder and urethra
    - 10.1.8 Genitourinary symptoms and ill-defined conditions [163.]
      - 10.1.8.1 Hematuria

- 10.1.8.2 Retention of urine
    - 10.1.8.3 Other and unspecified genitourinary symptoms
  - 10.2 Diseases of male genital organs
    - 10.2.1 Hyperplasia of prostate [164.]
    - 10.2.2 Inflammatory conditions of male genital organs [165.]
    - 10.2.3 Other male genital disorders [166.]
  - 10.3 Diseases of female genital organs
    - 10.3.1 Nonmalignant breast conditions [167.]
    - 10.3.2 Inflammatory diseases of female pelvic organs [168.]
      - 10.3.2.1 Pelvic peritoneal adhesions
      - 10.3.2.2 Cervicitis and endocervicitis
      - 10.3.2.3 Pelvic inflammatory disease (PID)
      - 10.3.2.4 Other inflammatory diseases of female pelvic organs
    - 10.3.3 Endometriosis [169.]
    - 10.3.4 Prolapse of female genital organs [170.]
    - 10.3.5 Menstrual disorders [171.]
    - 10.3.6 Ovarian cyst [172.]
    - 10.3.7 Menopausal disorders [173.]
    - 10.3.8 Female infertility [174.]
    - 10.3.9 Other female genital disorders [175.]
      - 10.3.9.1 Female genital pain and other symptoms
      - 10.3.9.2 Other and unspecified female genital disorders
- 11 Complications of pregnancy, childbirth, and the puerperium
  - 11.1 Contraceptive and procreative management [176.]
    - 11.1.1 Sterilization
    - 11.1.2 Other contraceptive and procreation management
  - 11.2 Abortion-related disorders
    - 11.2.1 Spontaneous abortion [177.]
    - 11.2.2 Induced abortion [178.]
    - 11.2.3 Postabortion complications [179.]
  - 11.3 Complications mainly related to pregnancy
    - 11.3.1 Ectopic pregnancy [180.]
    - 11.3.2 Hemorrhage during pregnancy, abruptio placenta, placenta previa [182.]
      - 11.3.2.1 Placenta previa
      - 11.3.2.2 Abruptio placenta
      - 11.3.2.3 Other hemorrhage during pregnancy, childbirth and the puerperium
    - 11.3.3 Hypertension complicating pregnancy, childbirth and the puerperium [183.]
      - 11.3.3.1 Preeclampsia and eclampsia
      - 11.3.3.2 Other hypertension in pregnancy
    - 11.3.4 Early or threatened labor [184.]
      - 11.3.4.1 Threatened premature labor
      - 11.3.4.2 Early onset of delivery
      - 11.3.4.3 Other early or threatened labor
    - 11.3.5 Prolonged pregnancy [185.]
    - 11.3.6 Diabetes or abnormal glucose tolerance complicating pregnancy, childbirth, or the puerperium [186.]
    - 11.3.7 Other complications of pregnancy [181.]
      - 11.3.7.1 Infections of genitourinary tract during pregnancy
      - 11.3.7.2 Anemia during pregnancy



- 11.3.7.3 Mental disorders during pregnancy
    - 11.3.7.4 Missed abortion
    - 11.3.7.5 Hyperemesis gravidarum
    - 11.3.7.6 Infectious and parasitic complications in mother affecting pregnancy
    - 11.3.7.7 Other and unspecified complications of pregnancy
  - 11.4 Indications for care in pregnancy, labor, and delivery
    - 11.4.1 Malposition, malpresentation [187.]
      - 11.4.1.1 Breech presentation
      - 11.4.1.2 Other malposition, malpresentation
    - 11.4.2 Fetopelvic disproportion, obstruction [188.]
      - 11.4.2.1 Fetopelvic disproportion
      - 11.4.2.2 Other disproportion or obstruction
    - 11.4.3 Previous C-section [189.]
    - 11.4.4 Fetal distress and abnormal forces of labor [190.]
      - 11.4.4.1 Fetal distress
      - 11.4.4.2 Uterine inertia
      - 11.4.4.3 Precipitate labor
      - 11.4.4.4 Other abnormal forces of labor
    - 11.4.5 Polyhydramnios and other problems of amniotic cavity [191.]
      - 11.4.5.1 Premature rupture of membranes
      - 11.4.5.2 Infection of amniotic cavity
      - 11.4.5.3 Other problems of amniotic cavity
  - 11.5 Complications during labor
    - 11.5.1 Umbilical cord complication [192.]
      - 11.5.1.1 Cord around neck with compression
      - 11.5.1.2 Other and unspecified cord entanglement with or without compression
      - 11.5.1.3 Other umbilical cord complications
    - 11.5.2 Trauma to perineum and vulva [193.]
      - 11.5.2.1 First degree perineal laceration
      - 11.5.2.2 Second degree perineal laceration
      - 11.5.2.3 Third degree perineal laceration
      - 11.5.2.4 Fourth degree perineal laceration
      - 11.5.2.5 Other perineal laceration and trauma
    - 11.5.3 Forceps delivery [194.]
  - 11.6 Other complications of birth, puerperium affecting management of mother [195.]
    - 11.6.1 Postpartum hemorrhage
    - 11.6.2 Complications of the puerperium
    - 11.6.3 Cervical incompetence
    - 11.6.4 Rhesus isoimmunization
    - 11.6.5 Intrauterine death
    - 11.6.6 Failed induction
    - 11.6.7 Other obstetrical trauma
    - 11.6.8 Other and unspecified complications of birth, puerperium affecting management of mother
  - 11.7 Normal pregnancy and/or delivery [196.]
    - 11.7.1 Normal delivery
    - 11.7.2 Multiple gestation
    - 11.7.3 Outcome of delivery (V codes)
- 12 Diseases of the skin and subcutaneous tissue

- 12.1 Skin and subcutaneous tissue infections [197.]
  - 12.1.1 Cellulitis and abscess
    - 12.1.1.1 Cellulitis and abscess of fingers and toes
    - 12.1.1.2 Cellulitis and abscess of face
    - 12.1.1.3 Cellulitis and abscess of arm
    - 12.1.1.4 Cellulitis and abscess of hand
    - 12.1.1.5 Cellulitis and abscess of leg
    - 12.1.1.6 Cellulitis and abscess of foot
    - 12.1.1.7 Other cellulitis and abscess
  - 12.1.2 Other skin and subcutaneous infections
- 12.2 Other inflammatory condition of skin [198.]
- 12.3 Chronic ulcer of skin [199.]
  - 12.3.1 Decubitus ulcer
  - 12.3.2 Chronic ulcer of leg
  - 12.3.3 Other chronic skin ulcer
- 12.4 Other skin disorders [200.]
- 13 Diseases of the musculoskeletal system and connective tissue
  - 13.1 Infective arthritis and osteomyelitis (except that caused by TB or STD) [201.]
  - 13.2 Non-traumatic joint disorders
    - 13.2.1 Rheumatoid arthritis and related disease [202.]
    - 13.2.2 Osteoarthritis [203.]
      - 13.2.2.1 Osteoarthritis, localized
      - 13.2.2.2 Osteoarthritis, generalized and unspecified
    - 13.2.3 Other non-traumatic joint disorders [204.]
  - 13.3 Spondylosis, intervertebral disc disorders, other back problems [205.]
    - 13.3.1 Spondylosis and allied disorders
    - 13.3.2 Intervertebral disc disorders
    - 13.3.3 Other back problems
      - 13.3.3.1 Cervical radiculitis
      - 13.3.3.2 Spinal stenosis, lumbar region
      - 13.3.3.3 Lumbago
      - 13.3.3.4 Sciatica
      - 13.3.3.5 Thoracic or lumbosacral neuritis or radiculitis, unspecified
      - 13.3.3.6 Backache, unspecified
      - 13.3.3.7 Other back pain and disorders
  - 13.4 Osteoporosis [206.]
  - 13.5 Pathological fracture [207.]
  - 13.6 Acquired deformities
    - 13.6.1 Acquired foot deformities [208.]
    - 13.6.2 Other acquired deformities [209.]
  - 13.7 Systemic lupus erythematosus and connective tissue disorders [210.]
  - 13.8 Other connective tissue disease [211.]
  - 13.9 Other bone disease and musculoskeletal deformities [212.]
- 14 Congenital anomalies
  - 14.1 Cardiac and circulatory congenital anomalies [213.]
    - 14.1.1 Transposition of great vessels
    - 14.1.2 Tetralogy of Fallot
    - 14.1.3 Ventricular septal defect
    - 14.1.4 Atrial septal defect

- 14.1.5 Endocardial cushion defects
  - 14.1.6 Pulmonary valve atresia and stenosis
  - 14.1.7 Aortic valve stenosis
  - 14.1.8 Patent ductus arteriosus
  - 14.1.9 Coarctation of aorta
  - 14.1.10 Pulmonary artery anomalies
  - 14.1.11 Cerebrovascular anomalies
  - 14.1.12 Other cardiac and circulatory congenital anomalies
- 14.2 Digestive congenital anomalies [214.]
  - 14.2.1 Esophageal atresia/tracheoesophageal fistula
  - 14.2.2 Pyloric stenosis
  - 14.2.3 Rectal and large intestine atresia/stenosis
  - 14.2.4 Hirshsprung's disease
  - 14.2.5 Other digestive congenital anomalies
- 14.3 Genitourinary congenital anomalies [215.]
  - 14.3.1 Undescended testicle
  - 14.3.2 Hypospadias and epispadias
  - 14.3.3 Obstructive genitourinary defect
  - 14.3.4 Other genitourinary congenital anomalies
- 14.4 Nervous system congenital anomalies [216.]
  - 14.4.1 Spina bifida
  - 14.4.2 Congenital hydrocephalus
  - 14.4.3 Other nervous system congenital anomalies
- 14.5 Other congenital anomalies [217.]
  - 14.5.1 Cleft palate without cleft lip
  - 14.5.2 Cleft lip with or without cleft palate
  - 14.5.3 Congenital hip dislocation
  - 14.5.4 All other congenital anomalies
- 15 Certain conditions originating in the perinatal period
  - 15.1 Liveborn [218.]
  - 15.2 Short gestation, low birth weight, and fetal growth retardation [219.]
  - 15.3 Intrauterine hypoxia and birth asphyxia [220.]
  - 15.4 Respiratory distress syndrome [221.]
  - 15.5 Hemolytic jaundice and perinatal jaundice [222.]
  - 15.6 Birth trauma [223.]
  - 15.7 Other perinatal conditions [224.]
    - 15.7.1 Respiratory conditions of fetus and newborn, other than respiratory distress
    - 15.7.2 Infections specific to the perinatal period
    - 15.7.3 Endocrine and metabolic disturbances of fetus and newborn
    - 15.7.4 Other and unspecified perinatal conditions
- 16 Injury and poisoning
  - 16.1 Joint disorders and dislocations, trauma-related [225.]
  - 16.2 Fractures
    - 16.2.1 Fracture of neck of femur (hip) [226.]
    - 16.2.2 Skull and face fractures [228.]
    - 16.2.3 Fracture of upper limb [229.]
      - 16.2.3.1 Fracture of humerus
      - 16.2.3.2 Fracture of radius and ulna
      - 16.2.3.3 Other fracture of upper limb

- 16.2.4 Fracture of lower limb [230.]
  - 16.2.4.1 Fracture of tibia and fibula
  - 16.2.4.2 Fracture of ankle
  - 16.2.4.3 Other fracture of lower limb
- 16.2.5 Other fractures [231.]
  - 16.2.5.1 Fracture of vertebral column without mention of spinal cord injury
  - 16.2.5.2 Fracture of ribs, closed
  - 16.2.5.3 Fracture of pelvis
  - 16.2.5.4 Other and unspecified fracture
- 16.3 Spinal cord injury [227.]
- 16.4 Intracranial injury [233.]
  - 16.4.1 Concussion
  - 16.4.2 Other intracranial injury
- 16.5 Crushing injury or internal injury [234.]
- 16.6 Open wounds
  - 16.6.1 Open wounds of head, neck, and trunk [235.]
  - 16.6.2 Open wounds of extremities [236.]
- 16.7 Sprains and strains [232.]
- 16.8 Superficial injury, contusion [239.]
- 16.9 Burns [240.]
- 16.10 Complications
  - 16.10.1 Complication of device, implant or graft [237.]
    - 16.10.1.1 Malfunction of device, implant, and graft
    - 16.10.1.2 Infection and inflammation--internal prosthetic device, implant, and graft
    - 16.10.1.3 Other complications of internal prosthetic device, implant, and graft
    - 16.10.1.4 Complications of transplants and reattached limbs
  - 16.10.2 Complications of surgical procedures or medical care [238.]
    - 16.10.2.1 Cardiac complications
    - 16.10.2.2 Respiratory complications
    - 16.10.2.3 Gastrointestinal complications
    - 16.10.2.4 Urinary complications
    - 16.10.2.5 Hemorrhage or hematoma complicating a procedure
    - 16.10.2.6 Postoperative infection
    - 16.10.2.7 Other complications of surgical and medical procedures
- 16.11 Poisoning
  - 16.11.1 Poisoning by psychotropic agents [241.]
  - 16.11.2 Poisoning by other medications and drugs [242.]
  - 16.11.3 Poisoning by nonmedicinal substances [243.]
- 16.12 Other injuries and conditions due to external causes [244.]
- 17 Symptoms, signs, and ill-defined conditions and factors influencing health status
  - 17.1 Symptoms, signs, and ill-defined conditions
    - 17.1.1 Syncope [245.]
    - 17.1.2 Fever of unknown origin [246.]
    - 17.1.3 Lymphadenitis [247.]
    - 17.1.4 Gangrene [248.]
    - 17.1.5 Shock [249.]
    - 17.1.6 Nausea and vomiting [250.]
    - 17.1.7 Abdominal pain [251.]
    - 17.1.8 Malaise and fatigue [252.]

- 17.1.9 Allergic reactions [253.]
- 17.2 Factors influencing health care
  - 17.2.1 Rehabilitation care, fitting of prostheses, and adjustment of devices [254.]
  - 17.2.2 Administrative/social admission [255.]
  - 17.2.3 Medical examination/evaluation [256.]
  - 17.2.4 Other aftercare [257.]
  - 17.2.5 Other screening for suspected conditions (not mental disorders or infectious disease)  
[258.]
- 18 Residual codes, unclassified, all E codes [259. and 260.]

**Table 4. Clinical Classifications Software procedure category labels (multi-level)**

- 1 Operations on the nervous system
  - 1.1 Incision and excision of CNS [1.]
    - 1.1.1 Craniotomy and craniectomy
    - 1.1.2 Incision of cerebral meninges
    - 1.1.3 Other incision and excision of CNS
  - 1.2 Insertion, replacement, or removal of extracranial ventricular shunt [2.]
  - 1.3 Laminectomy, excision intervertebral disc [3.]
    - 1.3.1 Excision of intervertebral disc
    - 1.3.2 Laminectomy
  - 1.4 Diagnostic spinal tap [4.]
  - 1.5 Insertion of catheter or spinal stimulator and injection into spinal canal [5.]
  - 1.6 Decompression peripheral nerve [6.]
    - 1.6.1 Release of carpal tunnel
    - 1.6.2 Other lysis of adhesion and decompression of peripheral nerves
  - 1.7 Other diagnostic nervous system procedures [7.]
  - 1.8 Other non-OR or closed therapeutic nervous system procedures [8.]
  - 1.9 Other OR therapeutic nervous system procedures [9.]
- 2 Operations on the endocrine system
  - 2.1 Thyroidectomy, partial or complete [10.]
  - 2.2 Diagnostic endocrine procedures [11.]
  - 2.3 Other therapeutic endocrine procedures [12.]
- 3 Operations on the eye
  - 3.1 Corneal transplant [13.]
  - 3.2 Glaucoma procedures [14.]
  - 3.3 Lens and cataract procedures [15.]
    - 3.3.1 Insertion of prosthetic lens
    - 3.3.2 Phacoemulsification and aspiration of cataract
    - 3.3.3 Other extracapsular extraction of lens
    - 3.3.4 Other lens and cataract procedures
  - 3.4 Repair of retinal tear, detachment [16.]
  - 3.5 Destruction of lesion of retina and choroid [17.]
  - 3.6 Diagnostic procedures on eye [18.]
  - 3.7 Other therapeutic procedures on eyelids, conjunctiva, cornea [19.]
  - 3.8 Other intraocular therapeutic procedures [20.]
  - 3.9 Other extraocular muscle and orbit therapeutic procedures [21.]
- 4 Operations on the ear
  - 4.1 Tympanoplasty [22.]
  - 4.2 Myringotomy [23.]
  - 4.3 Mastoidectomy [24.]
  - 4.4 Diagnostic procedures on ear [25.]
  - 4.5 Other therapeutic ear procedures [26.]
- 5 Operations on the nose, mouth, and pharynx
  - 5.1 Control of epistaxis [27.]
  - 5.2 Plastic procedures on nose [28.]
  - 5.3 Dental procedures [29.]
  - 5.4 Tonsillectomy and/or adenoidectomy [30.]
    - 5.4.1 Tonsillectomy without adenoidectomy

- 5.4.2 Tonsillectomy with adenoidectomy
  - 5.4.3 Adenoidectomy without tonsillectomy
  - 5.4.4 Control of hemorrhage after tonsillectomy or adenoidectomy
- 5.5 Diagnostic procedures on nose, mouth and pharynx [31.]
  - 5.5.1 Diagnostic procedures on nasal sinuses
  - 5.5.2 Other diagnostic procedures on nose, mouth and pharynx
- 5.6 Other non-OR therapeutic procedures on nose, mouth and pharynx [32.]
  - 5.6.1 Non-OR procedures on nasal sinuses
  - 5.6.2 Other non-OR procedures on nasal sinuses
- 5.7 Other OR therapeutic procedures on nose, mouth and pharynx [33.]
  - 5.7.1 OR procedures on nasal sinuses
  - 5.7.2 Excision salivary gland
  - 5.7.3 Repair cleft lip
  - 5.7.4 Correction cleft palate
  - 5.7.5 Incision and drainage of tonsils
  - 5.7.6 Other procedures on nose, mouth and pharynx
- 6 Operations on the respiratory system
  - 6.1 Tracheostomy, temporary and permanent [34.]
  - 6.2 Tracheoscopy and laryngoscopy with biopsy [35.]
  - 6.3 Lobectomy or pneumonectomy [36.]
  - 6.4 Diagnostic bronchoscopy and biopsy of bronchus [37.]
    - 6.4.1 Bronchoscopy without biopsy
    - 6.4.2 Endoscopic biopsy of bronchus
    - 6.4.3 Needle biopsy of lung
    - 6.4.4 Endoscopic biopsy of lung
  - 6.5 Other diagnostic procedures on lung and bronchus [38.]
  - 6.6 Incision of pleura, thoracentesis, chest drainage [39.]
    - 6.6.1 Closed chest drainage
    - 6.6.2 Open chest drainage
    - 6.6.3 Thoracentesis
  - 6.7 Other diagnostic procedures of respiratory tract and mediastinum [40.]
  - 6.8 Other non-OR therapeutic procedures on respiratory system [41.]
  - 6.9 Other OR therapeutic procedures on respiratory system [42.]
- 7 Operations on the cardiovascular system
  - 7.1 Heart valve procedures [43.]
  - 7.2 Coronary artery bypass graft (CABG) [44.]
    - 7.2.1 Bypass of one coronary artery
    - 7.2.2 Bypass of two coronary arteries
    - 7.2.3 Bypass of three coronary arteries
    - 7.2.4 Bypass of four coronary arteries
    - 7.2.5 Other bypass of coronary arteries
  - 7.3 Percutaneous transluminal coronary angioplasty (PTCA) [45.]
    - 7.3.1 Single vessel PTCA
    - 7.3.2 Multiple vessel PTCA
  - 7.4 Coronary thrombolysis [46.]
  - 7.5 Diagnostic cardiac catheterization, coronary arteriography [47.]
    - 7.5.1 Coronary arteriography
    - 7.5.2 Cardiac catheterization
  - 7.6 Insertion, revision, replacement, removal of cardiac pacemaker or cardioverter/defibrillator [48.]

- 7.6.1 Insertion, revision, replacement, or removal of pacemaker leads
  - 7.6.2 Insertion, revision, replacement, or removal of pacemaker device
  - 7.6.3 Insertion, revision, replacement, or removal of cardioverter/defibrillator
- 7.7 Other OR heart procedures [49.]
- 7.8 Extracorporeal circulation auxiliary to open heart procedures [50.]
- 7.9 Endarterectomy, vessel of head and neck [51.]
- 7.10 Aortic resection, replacement or anastomosis [52.]
- 7.11 Varicose vein stripping, lower limb [53.]
- 7.12 Other vascular catheterization, not heart [54.]
  - 7.12.1 Arterial catheterization
  - 7.12.2 Umbilical vein catheterization
  - 7.12.3 Venous catheterization
- 7.13 Peripheral vascular bypass [55.]
- 7.14 Other vascular bypass and shunt, not heart [56.]
- 7.15 Creation, revision and removal of arteriovenous fistula or vessel-to-vessel cannula for dialysis [57.]
- 7.16 Hemodialysis [58.]
- 7.17 Other OR procedures on vessels of head and neck [59.]
- 7.18 Embolectomy and endarterectomy of lower limbs [60.]
- 7.19 Other OR procedures on vessels other than head and neck [61.]
  - 7.19.1 Interrupt vena cava
  - 7.19.2 Other OR procedures on blood vessels
- 7.20 Other diagnostic cardiovascular procedures [62.]
- 7.21 Other non-OR therapeutic cardiovascular procedures [63.]
- 8 Operations on the hemic and lymphatic system
  - 8.1 Bone marrow transplant [64.]
  - 8.2 Bone marrow biopsy [65.]
  - 8.3 Procedures on spleen [66.]
  - 8.4 Other therapeutic procedures, hemic and lymphatic system [67.]
    - 8.4.1 Biopsy of lymphatic structure
    - 8.4.2 Simple excision of lymphatic structure
    - 8.4.3 Regional lymph node excision
    - 8.4.4 Radical excision lymph nodes
    - 8.4.5 Other hemic and lymphatic procedures
- 9 Operations on the digestive system
  - 9.1 Therapeutic procedures on the esophagus
    - 9.1.1 Injection or ligation of esophageal varices [68.]
    - 9.1.2 Esophageal dilatation [69.]
  - 9.2 Upper gastrointestinal endoscopy, biopsy [70.]
    - 9.2.1 Esophagoscopy
    - 9.2.2 Gastroscopy
    - 9.2.3 Esophagogastroduodenoscopy (EGD) without biopsy
    - 9.2.4 Esophagogastroduodenoscopy (EGD) with biopsy
    - 9.2.5 Endoscopic biopsy small intestine
  - 9.3 Gastrostomy, temporary and permanent [71.]
  - 9.4 Colostomy, temporary and permanent [72.]
  - 9.5 Ileostomy and other enterostomy [73.]
  - 9.6 Gastrectomy, partial and total [74.]
  - 9.7 Small bowel resection [75.]



- 9.8 Colonoscopy and biopsy [76.]
  - 9.8.1 Closed endoscopic biopsy of large intestine
  - 9.8.2 Other endoscopy of large intestine
- 9.9 Proctoscopy and anorectal biopsy [77.]
- 9.10 Colorectal resection [78.]
  - 9.10.1 Right hemicolectomy
  - 9.10.2 Left hemicolectomy
  - 9.10.3 Sigmoidectomy
  - 9.10.4 Resection of rectum
  - 9.10.5 Other colorectal resections
- 9.11 Local excision of large intestine lesion (not endoscopic) [79.]
- 9.12 Appendectomy [80.]
- 9.13 Hemorrhoid procedures [81.]
- 9.14 Endoscopic retrograde cannulation of pancreas (ERCP) [82.]
- 9.15 Biopsy of liver [83.]
- 9.16 Cholecystectomy and common duct exploration [84.]
  - 9.16.1 Open cholecystectomy
  - 9.16.2 Laparoscopic cholecystectomy
  - 9.16.3 Incision of bile duct
- 9.17 Inguinal and femoral hernia repair [85.]
  - 9.17.1 Unilateral repair inguinal hernia
  - 9.17.2 Bilateral repair inguinal hernia
  - 9.17.3 Femoral hernia repair
- 9.18 Other hernia repair [86.]
  - 9.18.1 Umbilical hernia repair
  - 9.18.2 Incisional hernia repair
  - 9.18.3 Other abdominal wall hernia repair
  - 9.18.4 Other hernia repair
- 9.19 Laparoscopy [87.]
- 9.20 Abdominal paracentesis [88.]
- 9.21 Exploratory laparotomy [89.]
- 9.22 Excision, lysis peritoneal adhesions [90.]
- 9.23 Peritoneal dialysis [91.]
- 9.24 Other bowel diagnostic procedures [92.]
- 9.25 Other non-OR upper GI therapeutic procedures [93.]
- 9.26 Other OR upper GI therapeutic procedures [94.]
- 9.27 Other non-OR lower GI therapeutic procedures [95.]
- 9.28 Other OR lower GI therapeutic procedures [96.]
  - 9.28.1 Closure of stoma of large intestine
  - 9.28.2 Local excision of rectal lesion
  - 9.28.3 Incision of perirectal tissue
  - 9.28.4 Incision of perianal abscess
  - 9.28.5 Incision/excision of anal fistula
  - 9.28.6 Other lower GI procedures
- 9.29 Other gastrointestinal diagnostic procedures [97.]
- 9.30 Other non-OR gastrointestinal therapeutic procedures [98.]
- 9.31 Other OR gastrointestinal therapeutic procedures [99.]
  - 9.31.1 Radical pancreaticoduodenectomy
  - 9.31.2 Incision abdominal wall

- 9.31.3 Excision or destruction of peritoneal tissue
  - 9.31.4 Creation of cutaneoperitoneal fistula
  - 9.31.5 Other gastrointestinal therapeutic procedures
- 10 Operations on the urinary system
  - 10.1 Cystoscopy and other transurethral procedures
    - 10.1.1 Endoscopy and endoscopic biopsy of the urinary tract [100.]
    - 10.1.2 Transurethral excision, drainage, or removal of urinary obstruction [101.]
    - 10.1.3 Ureteral catheterization [102.]
  - 10.2 Nephrotomy and nephrostomy [103.]
  - 10.3 Nephrectomy, partial or complete [104.]
  - 10.4 Kidney transplant [105.]
  - 10.5 Genitourinary incontinence procedures [106.]
  - 10.6 Extracorporeal lithotripsy, urinary [107.]
  - 10.7 Indwelling catheter [108.]
  - 10.8 Procedures on the urethra [109.]
  - 10.9 Other diagnostic procedures of urinary tract [110.]
    - 10.10 Other non-OR therapeutic procedures of urinary tract [111.]
    - 10.11 Other OR therapeutic procedures of urinary tract [112.]
- 11 Operations on the male genital organs
  - 11.1 Transurethral resection of prostate (TURP) [113.]
  - 11.2 Open prostatectomy [114.]
  - 11.3 Circumcision [115.]
  - 11.4 Diagnostic procedures, male genital [116.]
  - 11.5 Other non-OR therapeutic procedures, male genital [117.]
  - 11.6 Other OR therapeutic procedures, male genital [118.]
    - 11.6.1 Unilateral orchiectomy
    - 11.6.2 Bilateral orchiectomy
    - 11.6.3 Orchiopexy
    - 11.6.4 Insert or replace penile prosthesis
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